



SECRETARY of TRANSPORTATION



Nick Donohue Spring 2008













- Initiative is a result of legislation proposed by Governor Kaine and unanimously approved during the 2007 General Assembly Session
- Legislation requires the Commonwealth Transportation Board to develop new Secondary Street Acceptance Requirements
- Regulation will supersede and replace existing Subdivision Street Requirements

- Intended to ensure streets accepted into state system for perpetual public maintenance provide public benefit
- Legislation mandates that the new regulation include requirements or provisions that:
  - Ensure connectivity of road and pedestrian networks with existing and future transportation network
  - Minimize storm water run-off
  - Minimize impervious surface area through reduced streets widths
  - Address performance bonding and cost recovery

#### **Benefits of new concepts**

- Reduce vehicle miles traveled through direct routes
- Reduce congestion through alternative routes that reduce reliance on arterials roadways
- Increase capacity and efficiency of road network
- Direct and alternative routes for emergency service providers
- Alternative transportation options
- Context sensitive solutions
- Promotes healthy life-styles

#### **Process to Date**

- Initial public comment period May 2007 to July 2007
- Internal VDOT team formed Spring 2007
- Internal VDOT team developed initial draft regulation and reviewed work of Implementation Advisory Committee
- Secretary Homer established Implementation Advisory
   Committee which reviewed and refined the draft regulation
  - summer/fall 2007

#### **Process to Date (cont'd)**

- Implementation Advisory Committee consisting of stakeholders has met five times, membership includes:
  - Development community
  - Local government officials
  - Planning district commissions
  - Environmental community
  - Other stakeholders

#### **Process to Date (cont'd)**

- Proposed draft regulation published for public comment in April
  - Outreach ongoing with stakeholders
    - planning district commissions
    - home builders association of Virginia
    - Virginia chapter of the American planning association
    - VACo/VML
    - Other stakeholders
  - Public hearings scheduled
    - Harrisonburg April 30
    - NoVA May 14

- Bristol May 7
- Richmond May 21

#### **Timeline**

- Advisory Committee reviews public comment and refines regulation – summer/fall 2008
- Outreach with stakeholders through regional meetings – fall 2008
- Final action by CTB late 2008
- Training and implementation 2009

#### New concepts/standards in draft regulation

- Network Addition
- Area Types
- Connectivity
- Vesting
- Pedestrian Accommodations

To be accepted into state system streets must provide public benefit, defined as:

- Public service
- Connectivity\*
- Pedestrian accommodations\*
   \*Vary depending on location of development

#### Streets may be accepted as:

- Network addition (group of streets)
- Individual street

#### **Network Additions**

- Evaluating connectivity requires consideration of all streets in a proposed development as a whole instead of individually
- Streets within a development will be considered as a group for acceptance into the state system

## **Area Types**

#### **Draft regulation propose:**

- Establish graduated requirements based on location and conditions, with appropriate flexibility
- Create areas based on long-term local, regional and federal planning boundaries
- Three tiered system
  - Compact Area Type
  - Suburban Area Type
  - Rural Area Type

### **Area Types**

#### **Compact Area Type**

- Census urbanized areas
- Census urban clusters
- Urban development areas
- Transfer of development rights receiving areas
- Any area designated by local comprehensive plan

### **Area Types**

#### **Suburban Area Type**

- Metropolitan planning organization study boundary
- 2-mile buffer around urban development areas and urban clusters
- Cluster developments
- Area designated by local comprehensive plan

#### **Rural Area Type**

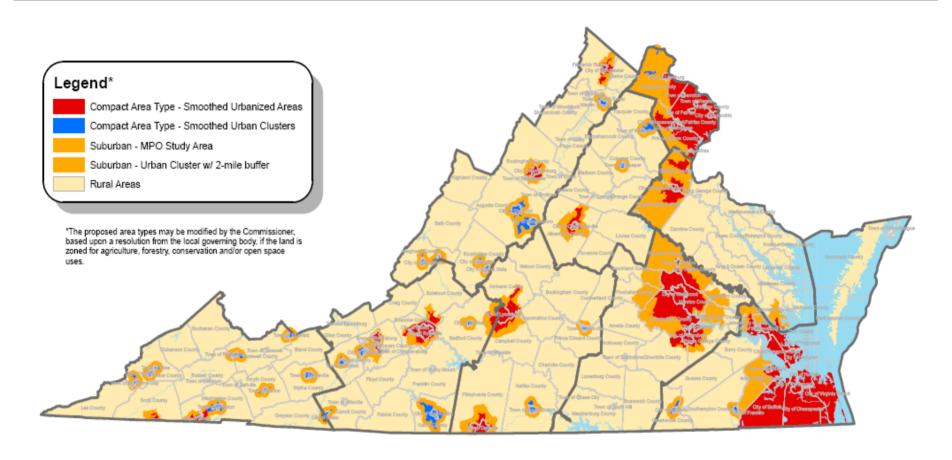
All other areas of the state

Area types may be modified at the request of the local governing body

#### Secondary Street Acceptance Requirements Area Type Thresholds Compact, Suburban and Rural Areas

Statewide

3



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Map Produced by TMPD on 11/20/07

#### Legislation states that regulation shall include:

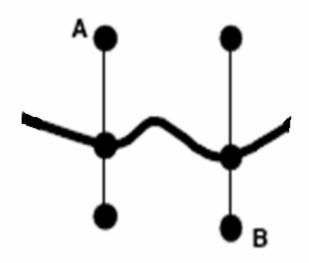
"requirements to ensure the connectivity of road and pedestrian networks with the existing and future transportation network"

#### **Benefits of connectivity**

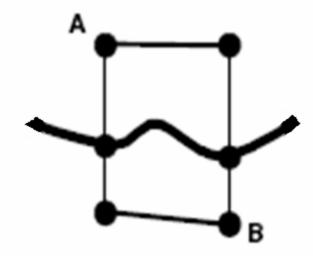
- Reduce congestion and vehicle miles traveled
- Improve the effectiveness of the overall regional and local transportation network
- Provide redundant routes and increase network capacity
- Provide direct and alternative routes for emergency service providers

- Link-node ratio is the industry standard connectivity measure applicable to network addition concept
- It is used by many localities across the country NC, VA, Del, Tx, etc
- Link-Node Ratio is the number of links divided by the number of nodes within a development or area
- "Links" are defined as roadway or alley segments between two nodes or a stub-out.
- "Nodes" are intersections or ends of cul-de-sacs

## Link-node ratio increases as connectivity of road network increases

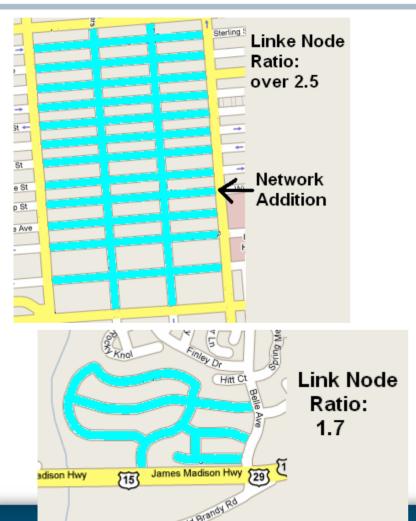


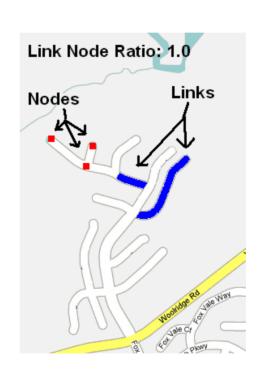
Ratio = 7/6 = 1.166



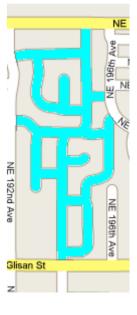
Ratio = 9/6 = 1.5

## **Connectivity Requirements - Examples**



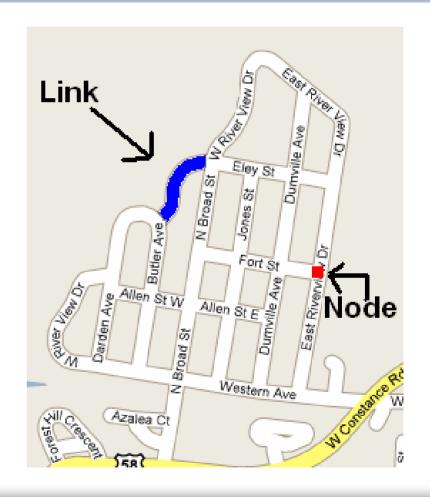


## Link-node ratio of 1.44



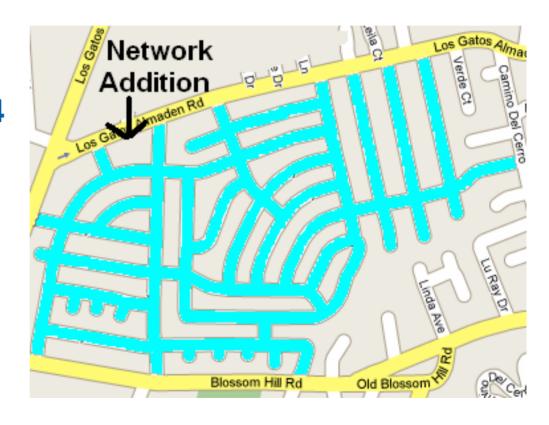
### Compact Area Type for Network Additions

- Link-Node Ratio of 1.6 or greater
- One external connection as well as an additional external connection and stubout per 50 links or fraction thereof



### Suburban Area Type for Network Additions

- Link-Node Ratio of 1.4 or greater
- One external connection as well as an additional external connection and stubout per 50 links or fraction thereof



#### **Rural Area Type for Network Additions**

 One external connection as well as an additional external connection and stub-out per 50 links or fraction thereof

#### **All Area Types**

 Developments must connect with adjoining development's stub-outs to be eligible for acceptance into state system

Stub out is a short segment of street at the edge of development intended to provide connectivity with future development

- Do not apply to rural addition, industrial access roads
- Requirements are goals
  - There will be circumstances when they can not be met
- Exceptions
  - Incompatible land use
  - Physical impedance such as terrain, river, etc
  - Existing development
  - Parcel shape
  - Access management requirements
- External links of collector or arterial roadways will count as two links for calculation of link-node ratio

## **Vesting and Grandfathering**

- Streets within a proffered plan of development, site plan/subdivision plat, preliminary subdivision plat or approved street construction plan may be accepted under former requirements
- Regulation allows previous area type requirements to apply when area type is modified after approval of development proposal

### **Pedestrian Accommodations**

#### Compact Area Type

Sidewalks along both sides of the street

#### Suburban Area Type

- Sidewalks along both sides of the street or a system of trails and sidewalks
- Developments with 2+ acre lots may use trail system or sidewalk along one side of the street

### Rural Area Type

- Trail system or sidewalk along one side of the street
- Streets with ADT of 200 or less are not required to provide pedestrian accommodations

## **Appeals**

- Developer may appeal to the District Administrator on unresolved differences of opinion
  - DA has 45 days to respond to such appeal
  - Developer may request a meeting to discuss issues

## **Design Requirements**

- Streets must meet geometric requirements in Road Design Manual, Subdivision Street Design Guide and Pavement Design Guide
- Street widths in design guide are being reviewed and will vary based on whether parking is on-street or offstreet
- VDOT may establish reduced parking requirements for individual or classes of development
- On-street parking, if desired, will be allowed on local and collector roadways with 35mph or less speed limit in urban areas

## **Design Requirements**

- Stormwater management facilities allowed within VDOT right-of-way with appropriate agreements
  - No VDOT liability
- Curb and gutter is an optional street design element
- Requirements for utility placement
- Other safety requirements (dams, RR crossings, etc)
- Neo-traditional development section is removed
- Use street design to manage motor vehicle speed to match local context and minimize <u>impacts</u> of through traffic

## **Surety and Fees**

- Surety
  - \$3,000 per tenth of lane mile, increased based on construction PPI
  - For up to three years, based on type of inspection process utilized
- Administrative Cost Recovery Fee
  - \$3,000 per center lane mile, based on 2006/2007 study
- Inspection Fee
  - \$1,500 per lane mile if VDOT inspects
  - \$375 per lane mile if alternative inspection processes are used
- Maintenance Fee has been removed

## **Inspection of Streets**

- Normal VDOT inspection process
  - Full inspection fee and surety requirements
- Third party inspection process
  - Reduced inspection fee and reduced surety requirements
- Local certification process
  - Reduced inspection fee and surety requirements are waived
- Detailed VDOT inspection process
  - Inspection fee and surety requirements are waived
  - Subject to the availability of VDOT staff

## **Implementation**

VDOT will produce a guidance document to accompany regulation to assist local staff and developers

VDOT will review street design guidelines to determine appropriate modifications, if any, that are necessary to help promote context sensitive design of local streets

## **Implementation**

There will be a 6 month transition period from effective date for the implementation of the regulation

- may use old or new requirements

VDOT will provide outreach and training similar to the outreach and training that was provided for the Traffic Impact Analysis regulations (Chapter 527)

### **Public Comments**

VDOT encourages all interested stakeholders to submit comments on the proposed draft regulation and the Subdivision Street Design Guide

Comments may be sent via email to

SSARComments@vdot.virginia.gov

or sent via US mail to

SSAR Comments
C/O VDOT Policy Office

1401 East Broad Street

Richmond, Virginia 23219



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